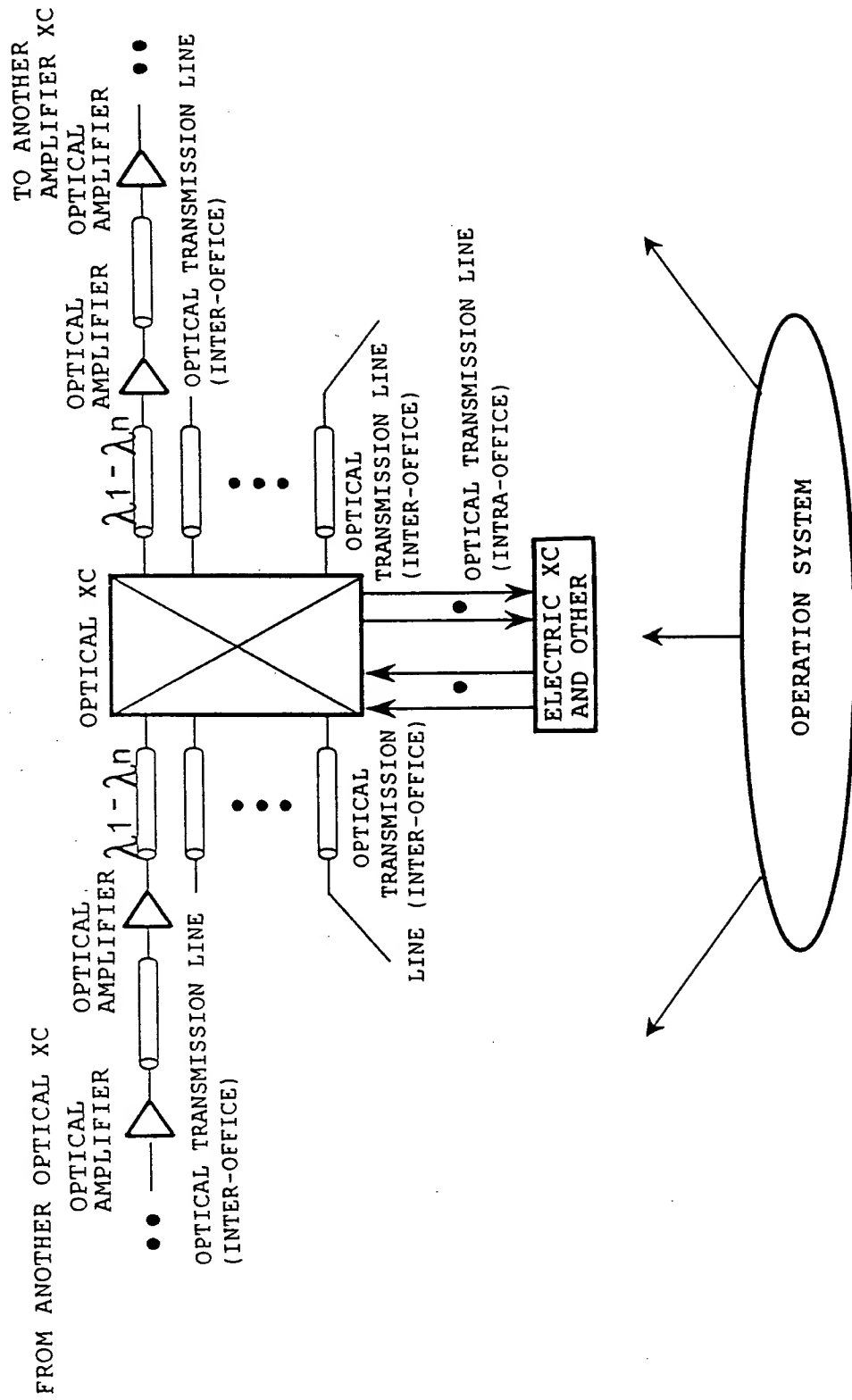


FIG. 1



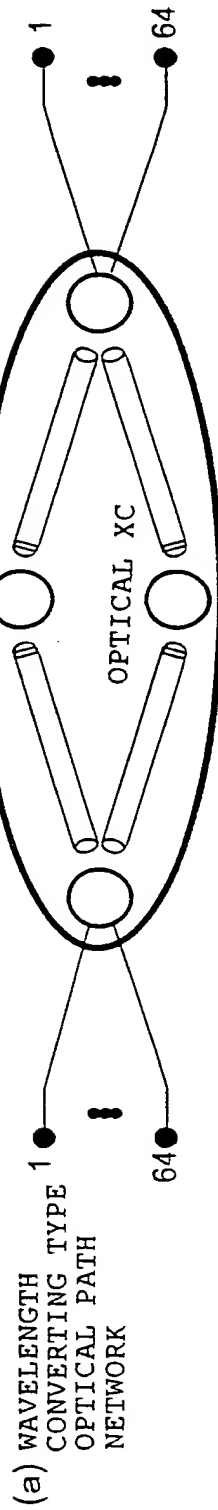
(b) WAVELENGTH
FIXING TYPE

✕ INTER-OFFICE LINK NUMBER: 6

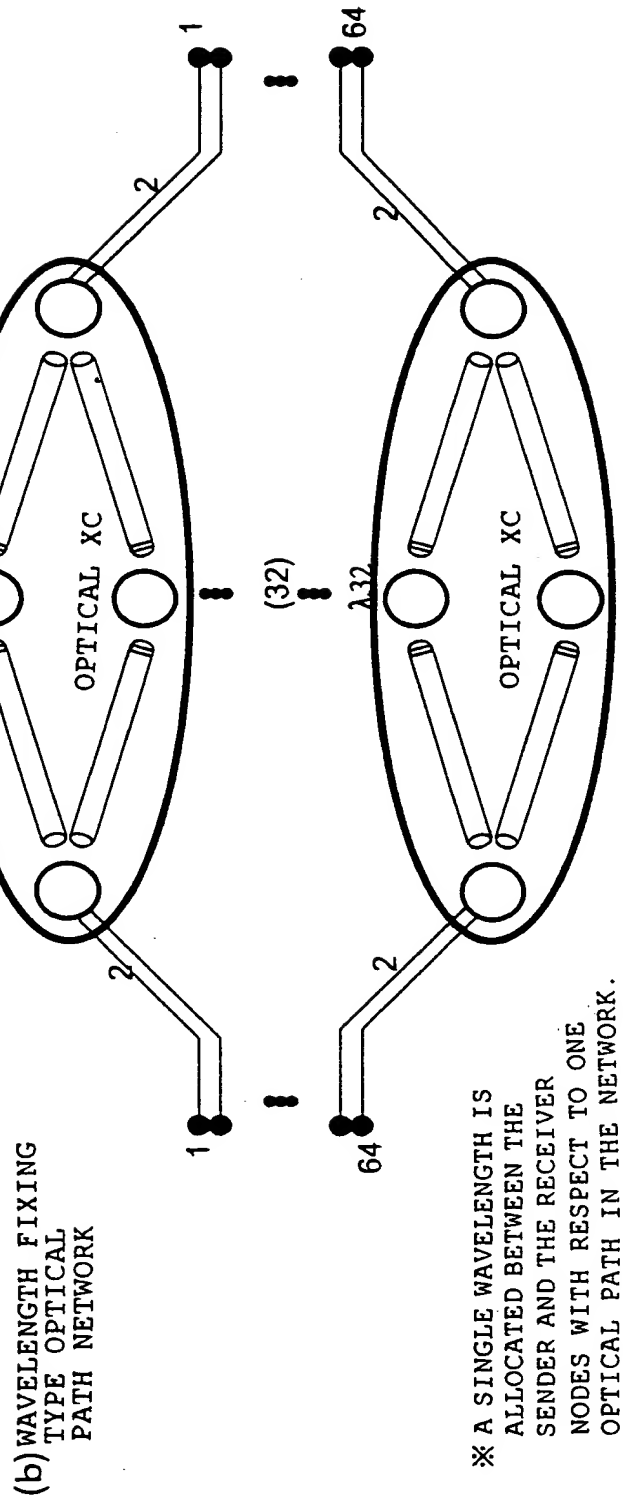
~~✕~~ INTRA-OFFICE LINK NUMBER: 2

✕ WAVELENGTH MULTIPLEXED NUMBER: 32

FIG. 3

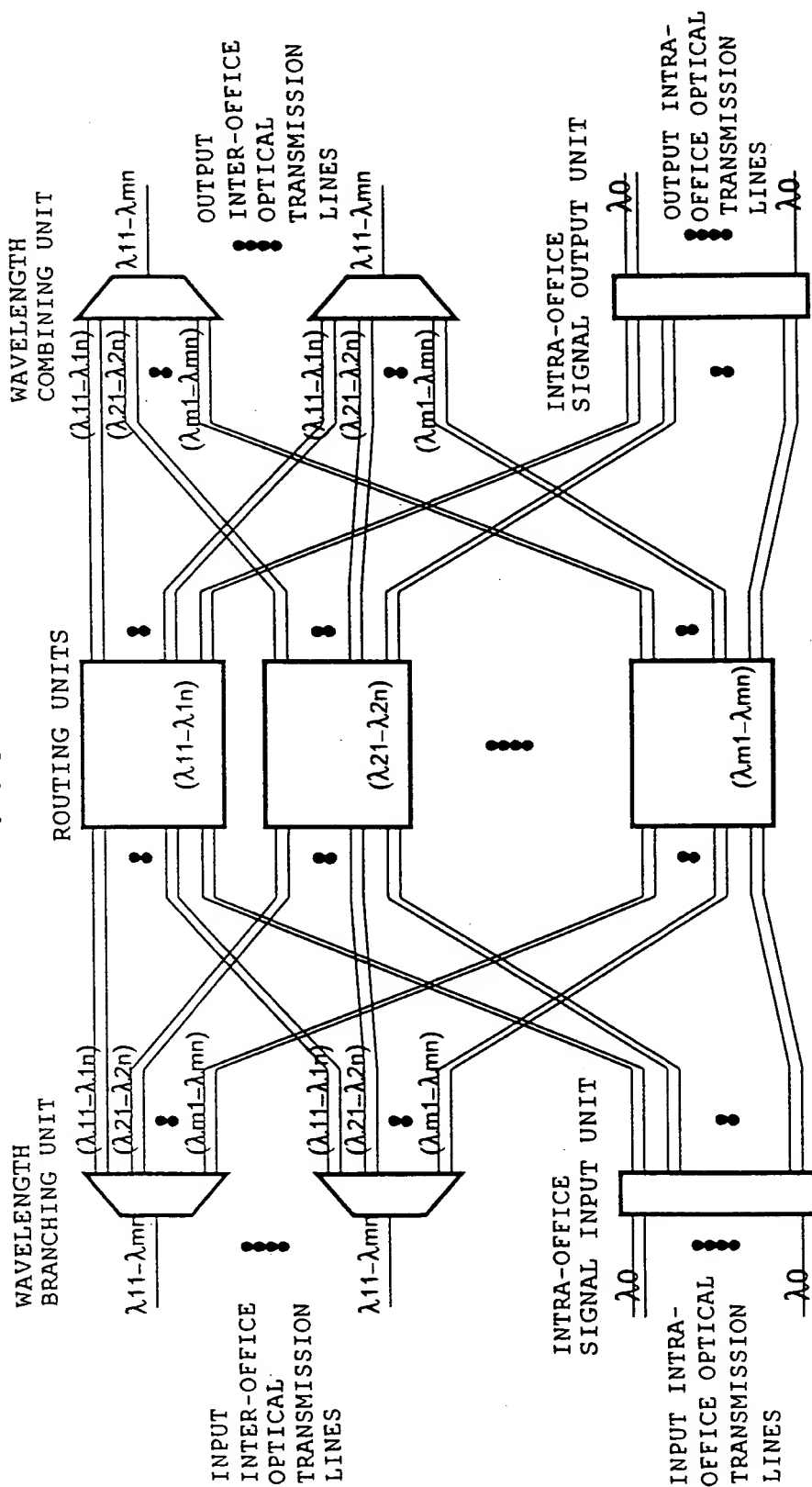


※ THE WAVELENGTHS ARE ALLOCATED IN THE LINK-BY-LINK BASIS BETWEEN THE SENDER AND RECEIVER NODES WITH RESPECT TO ONE OPTICAL PATH IN THE NETWORK.



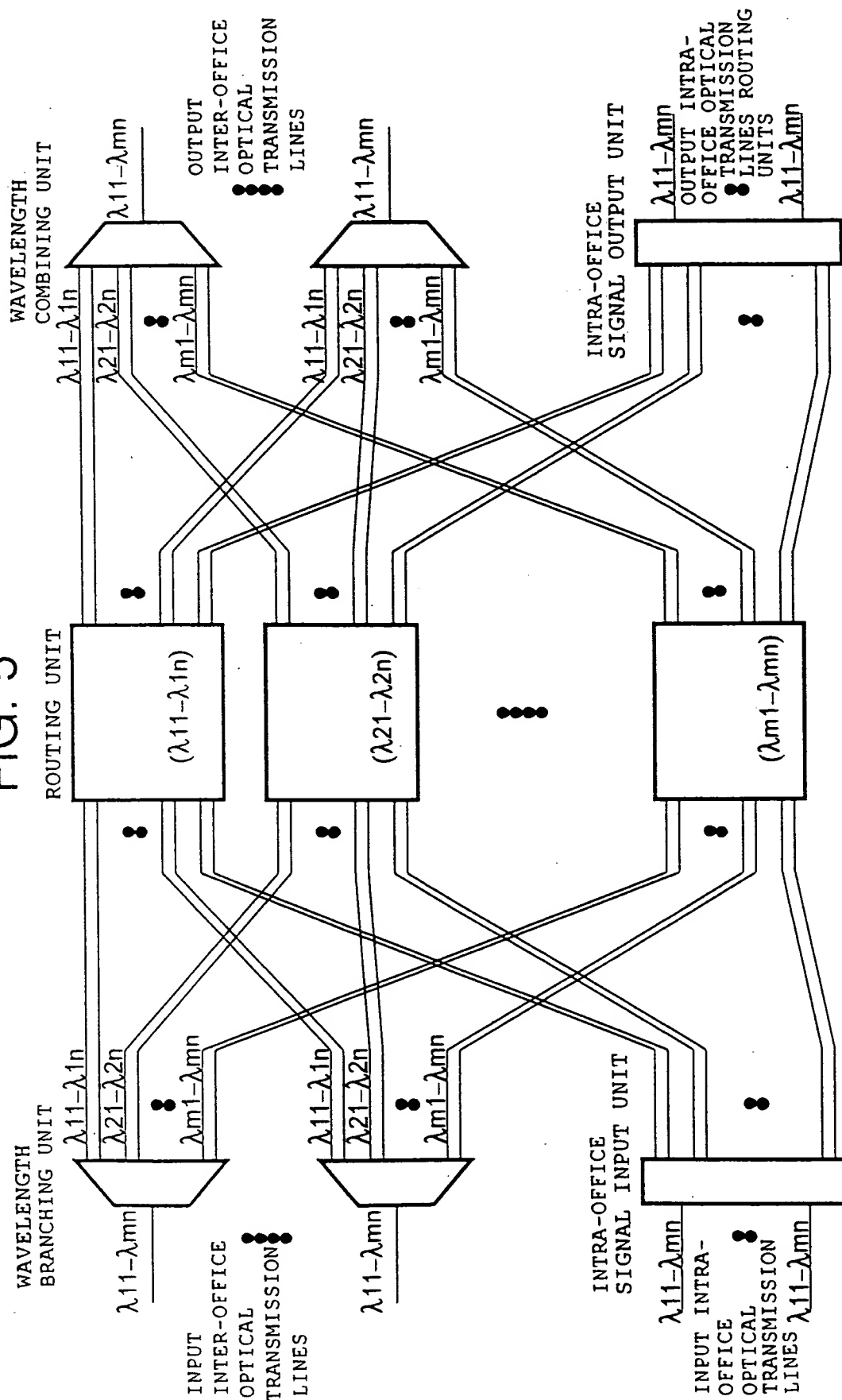
※ A SINGLE WAVELENGTH IS ALLOCATED BETWEEN THE SENDER AND THE RECEIVER NODES WITH RESPECT TO ONE OPTICAL PATH IN THE NETWORK.

FIG. 4



✕ SUBDIVIDED INTO "M" PIECES OF ROUTING UNITS
 ✕ IN UNIT OF "N" WAVELENGTHS
 ✕ PROVIDED WITH WAVELENGTH CONVERTER EACH OF THE RESPECTIVE

FIG. 5

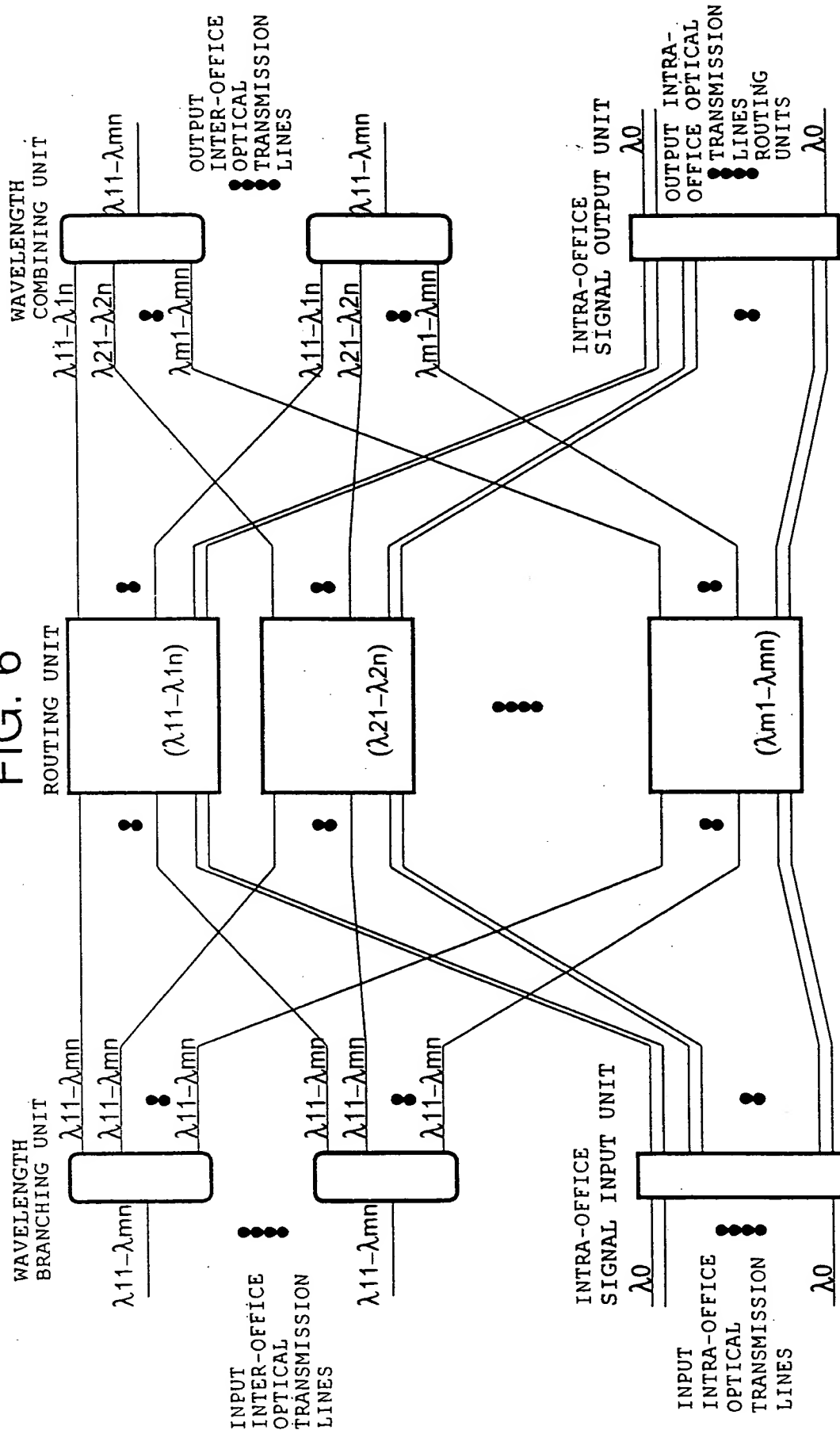


SUBDIVIDED INTO "M" PIECES OF ROUTING UNITS

※ IN UNIT OF "N" WAVELENGTHS

※ PROVIDED WITH WAVELENGTH CONVERTER EACH OF THE RESPECTIVE

FIG. 6

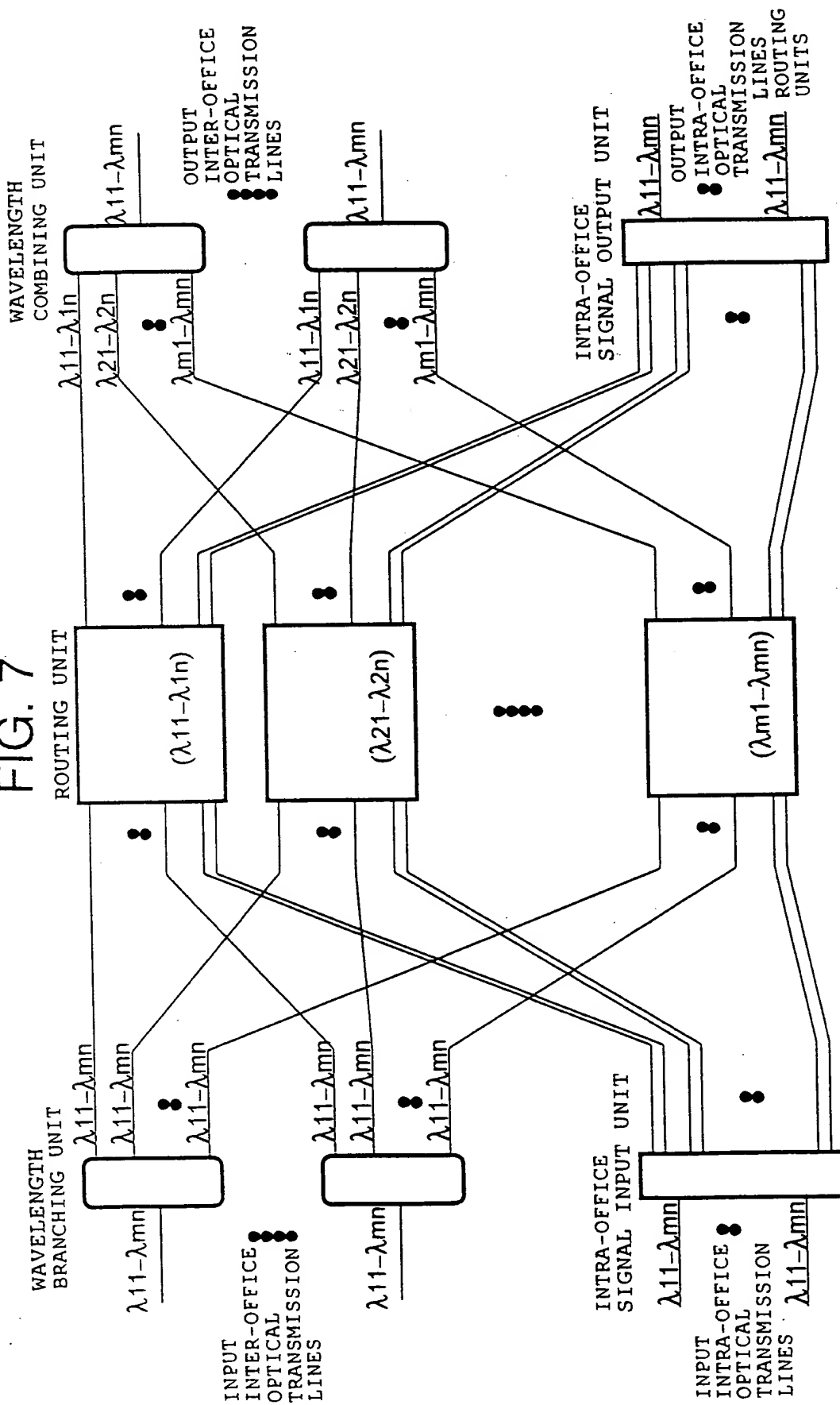


× SUBDIVIDED INTO "M" PIECES OF ROUTING UNITS

× IN UNIT OF "N" WAVELENGTHS

× PROVIDED WITH WAVELENGTH CONVERTER EACH OF THE RESPECTIVE

FIG. 7

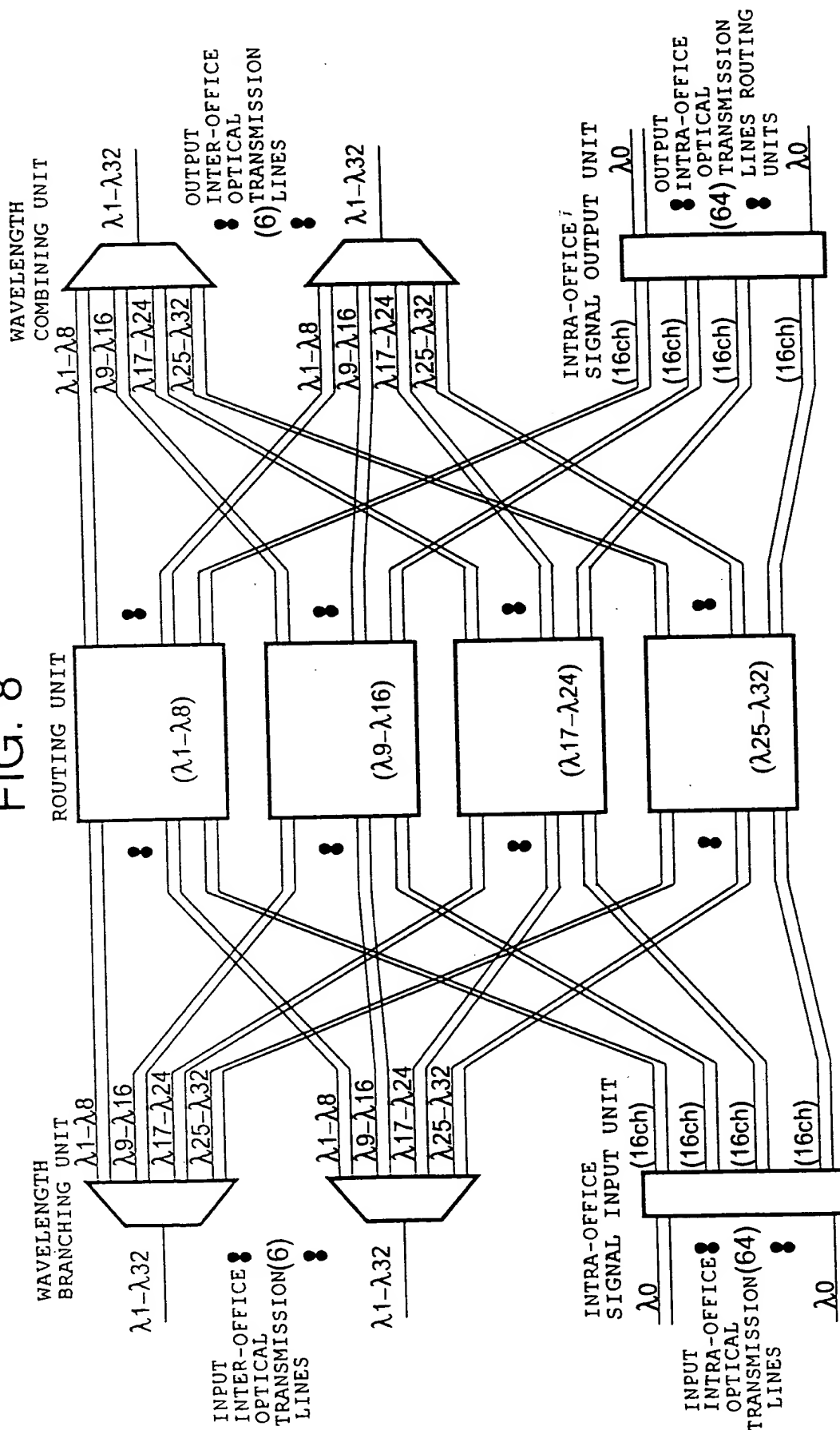


※ SUBDIVIDED INTO "M" PIECES OF ROUTING UNITS

※ IN UNIT OF "N" WAVELENGTHS

※ PROVIDED WITH WAVELENGTH CONVERTER EACH OF THE RESPECTIVE

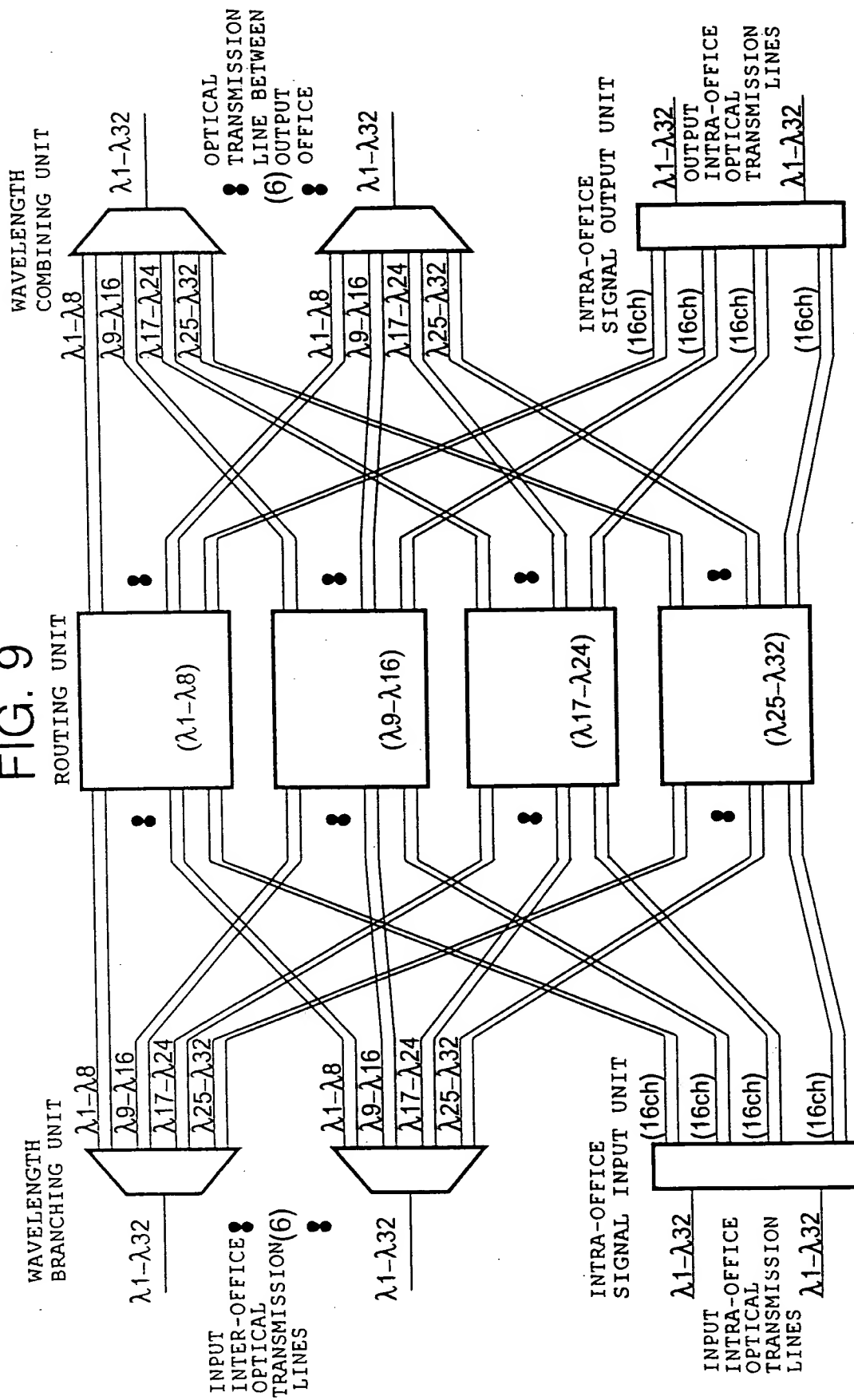
FIG. 8



SUBDIVIDED BY 4 PIECES OF ROUTING UNITS IN UNIT OF 8 WAVELENGTHS

- ※ (WAVELENGTH NUMBER : 32)
- ※ INTER-OFFICE OPTICAL SIGNAL CHANNEL NUMBER : 192
- ※ INTRA-OFFICE OPTICAL SIGNAL CHANNEL NUMBER : 64

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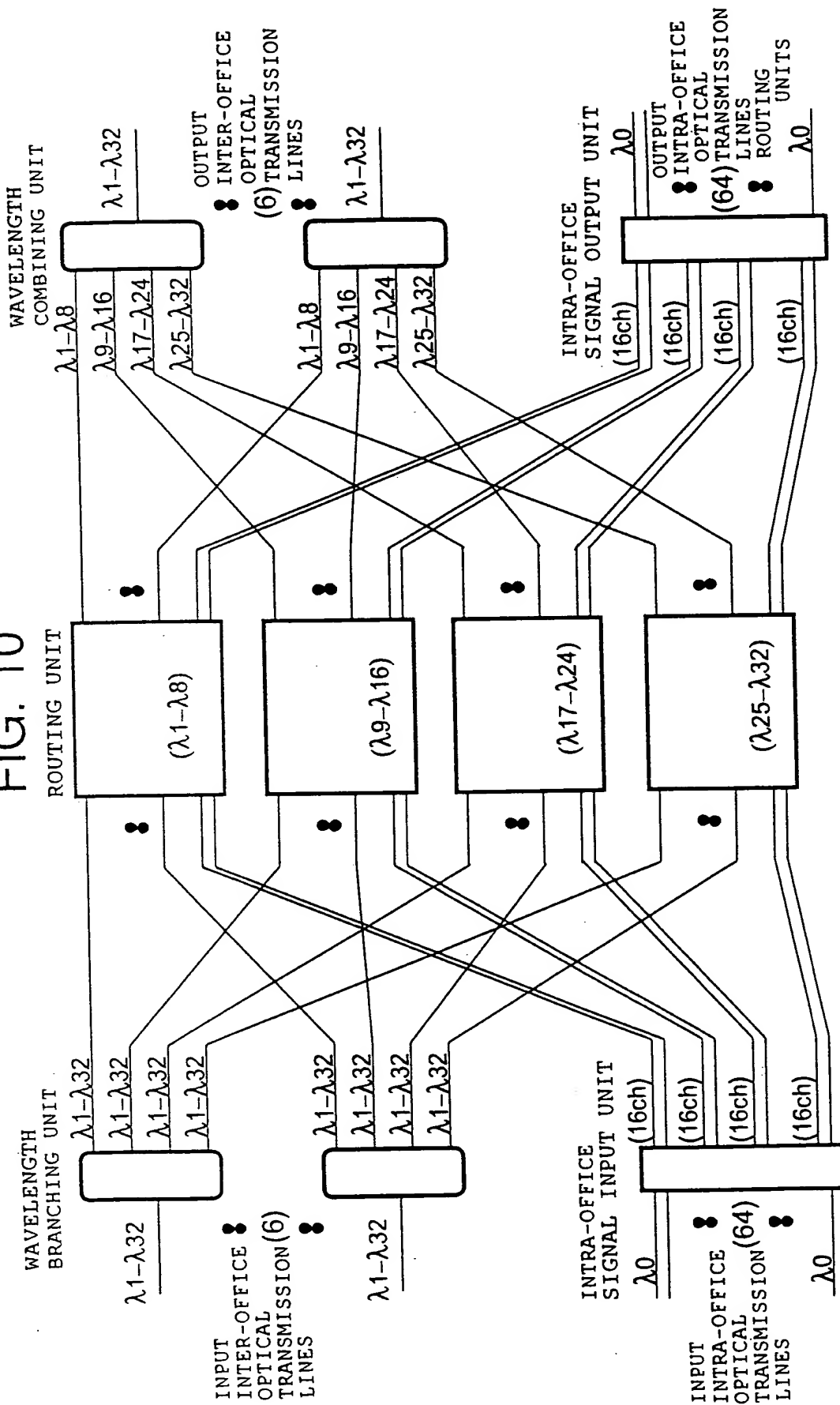
SUBDIVIDED BY 4 PIECES, OF ROUTING UNITS IN UNIT OF 8 WAVELENGTHS

※ SUBDIVIDED BY 4 PIECES (WAVELENGTH NUMBER : 32)

※(WAVELENGTH NUMBER : 32)
※INTER-OFFICE OPTICAL SIGNAL CHANNEL NUMBER : 192

INTRA-OFFICE OPTICAL SIGNAL CHANNEL NUMBER : 64

FIG. 10

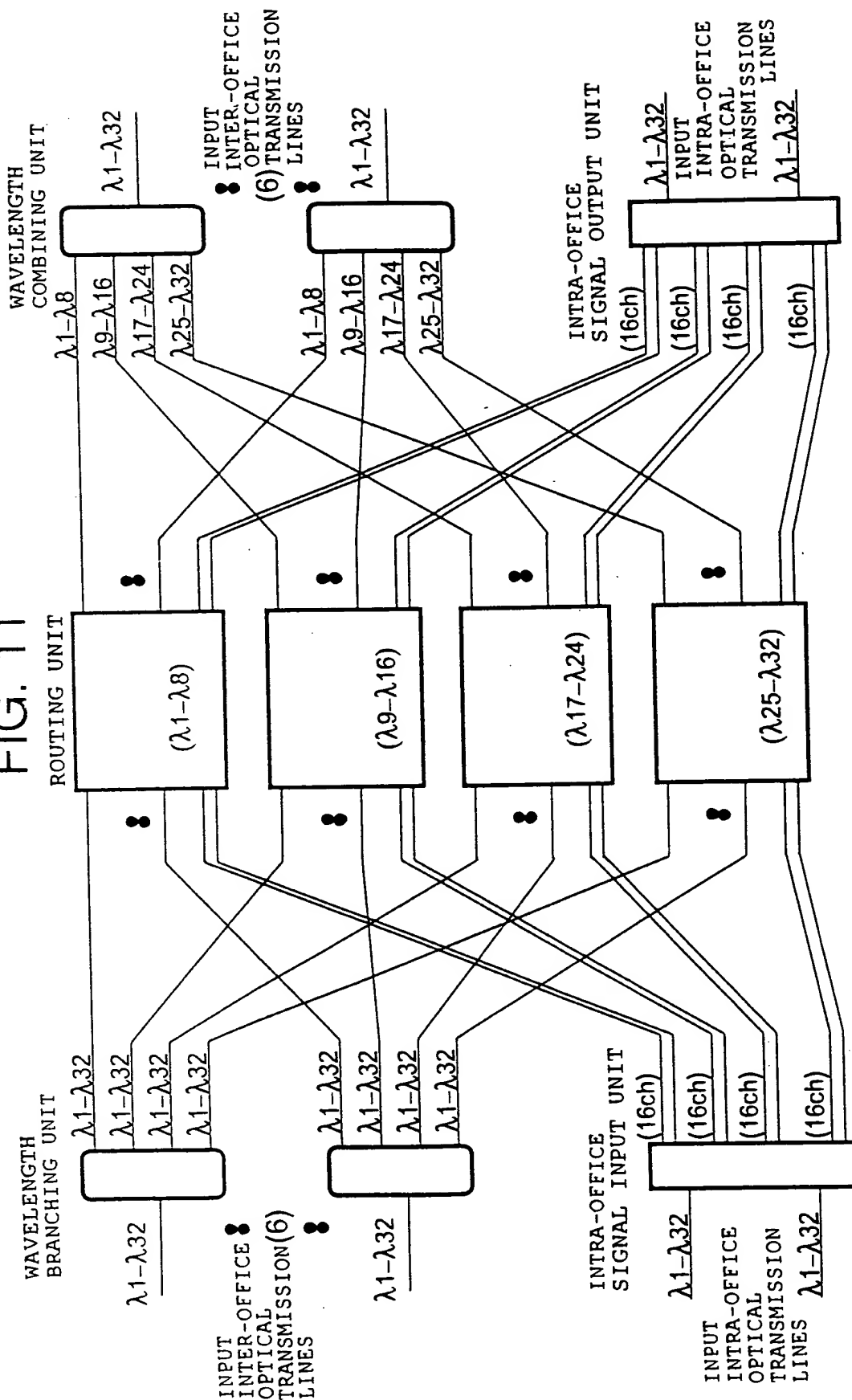


※ SUBDIVIDED BY 4 PIECES OF ROUTING UNITS IN UNIT OF 8 WAVELENGTHS
 (WAVELENGTH NUMBER : 32)

※ INTER-OFFICE OPTICAL SIGNAL CHANNEL NUMBER : 192

※ INTRA-OFFICE OPTICAL SIGNAL CHANNEL NUMBER : 64

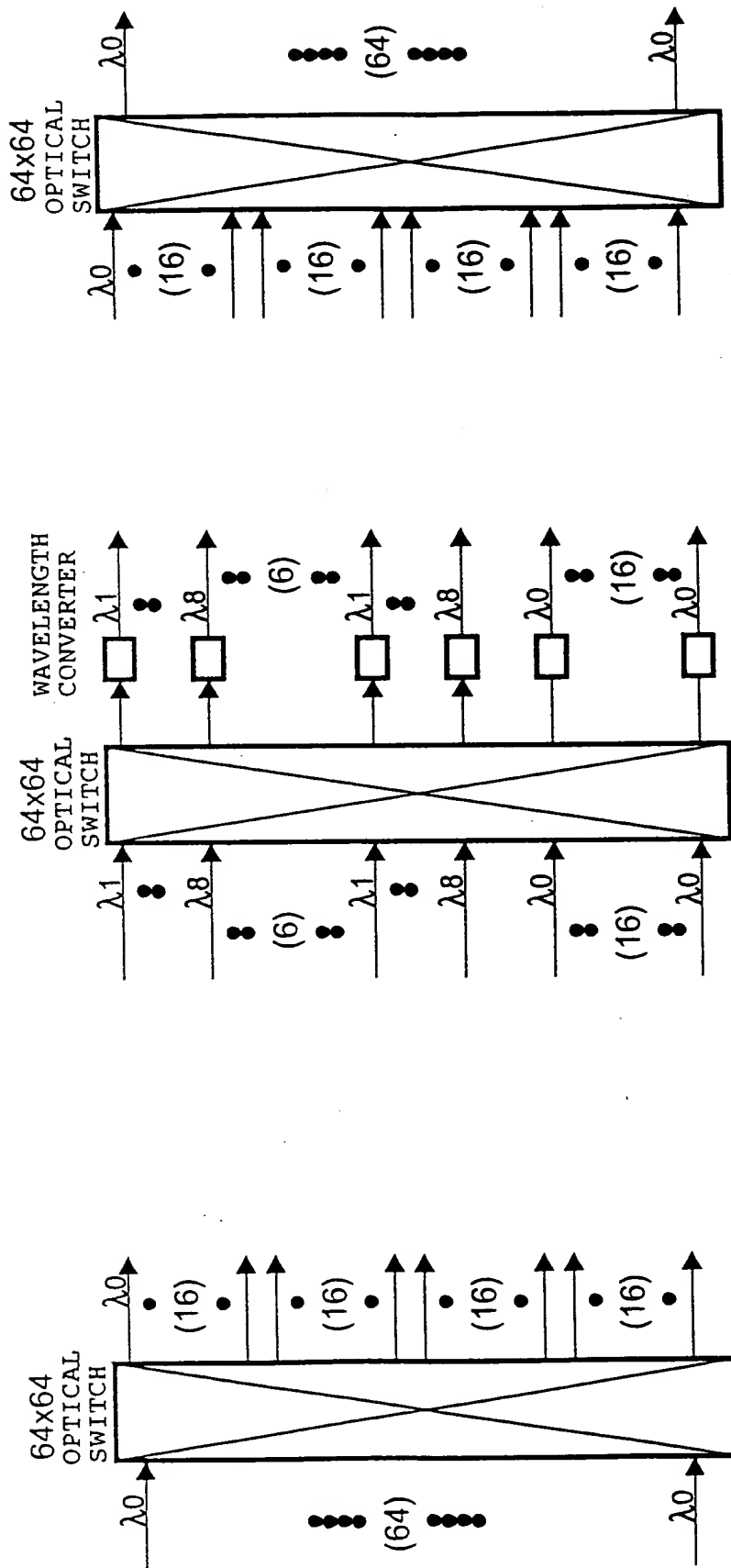
FIG. 11



SUBDIVIDED BY 4 PIECES OF ROUTING UNITS IN UNIT OF 8 WAVELENGTHS

- ※ (WAVELENGTH NUMBER : 32)
- ※ INTER-OFFICE OPTICAL SIGNAL CHANNEL NUMBER : 192
- ※ INTRA-OFFICE OPTICAL SIGNAL CHANNEL NUMBER : 64

FIG. 12



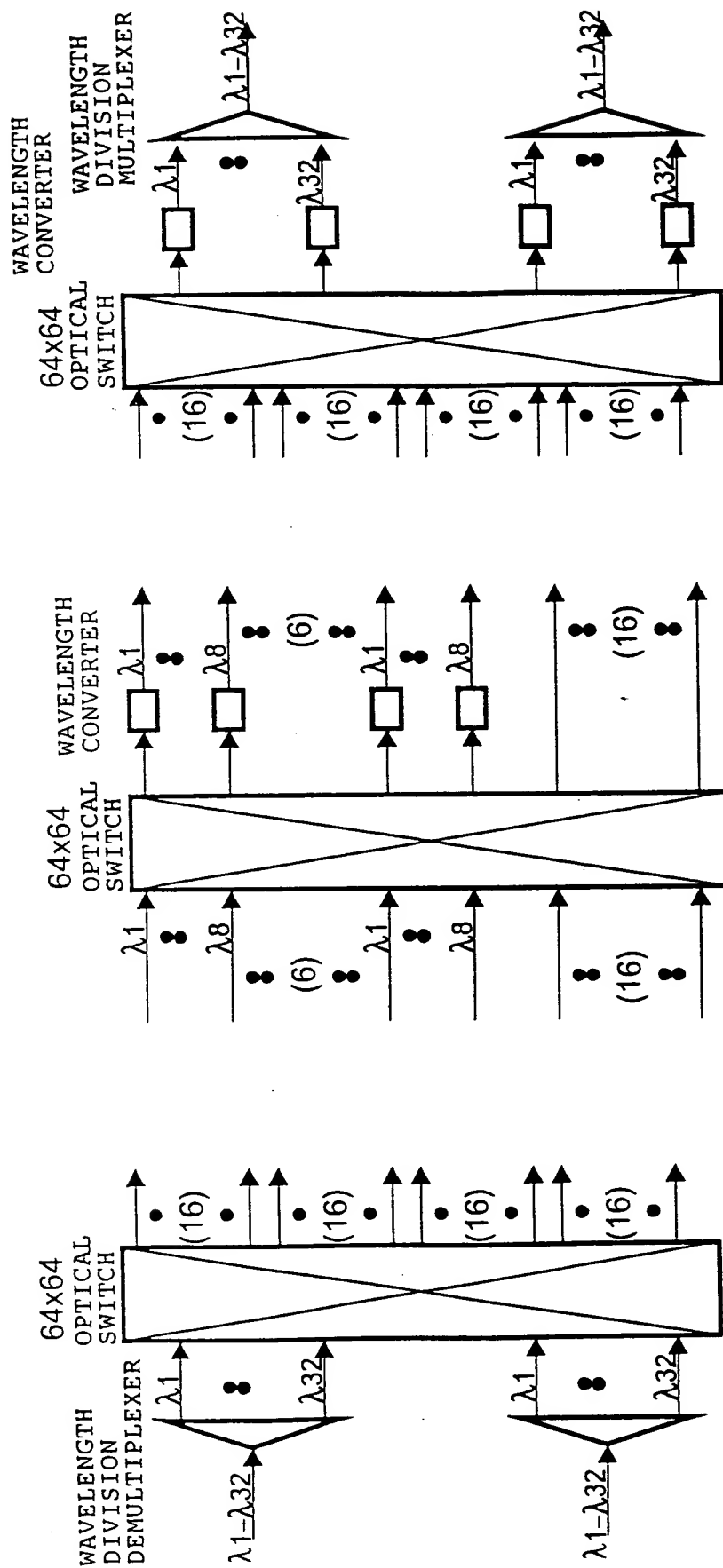
✕ ROUTING UNIT FOR λ_1 TO λ_8

(a) INTRA-OFFICE SIGNAL
INPUT UNIT

(b) ROUTING UNIT

(c) INTRA-OFFICE SIGNAL
OUTPUT UNIT

FIG. 13

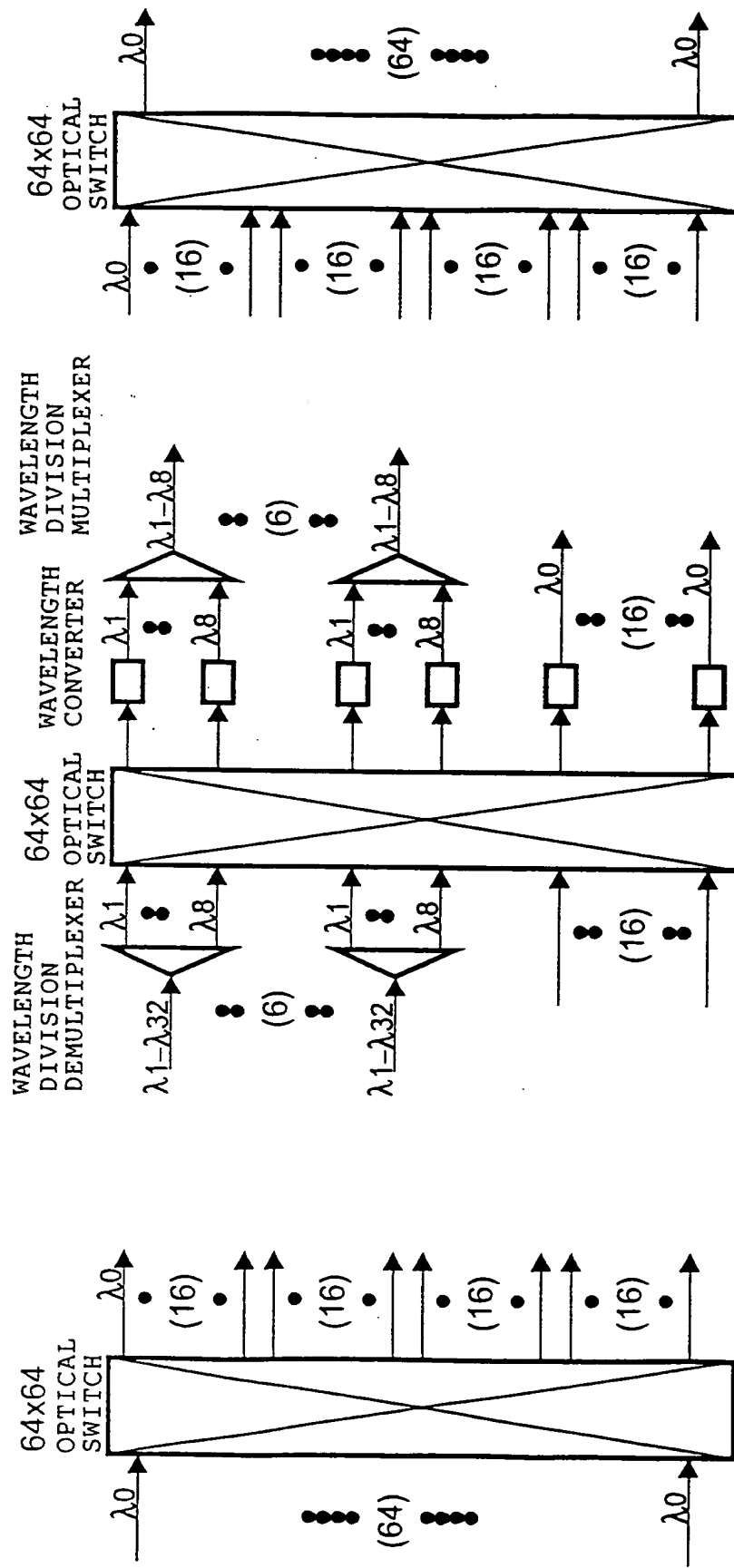


(c) INTRA-OFFICE SIGNAL
OUTPUT UNIT

(b) ROUTING UNIT

(a) INTRA-OFFICE SIGNAL
INPUT UNIT

FIG. 14

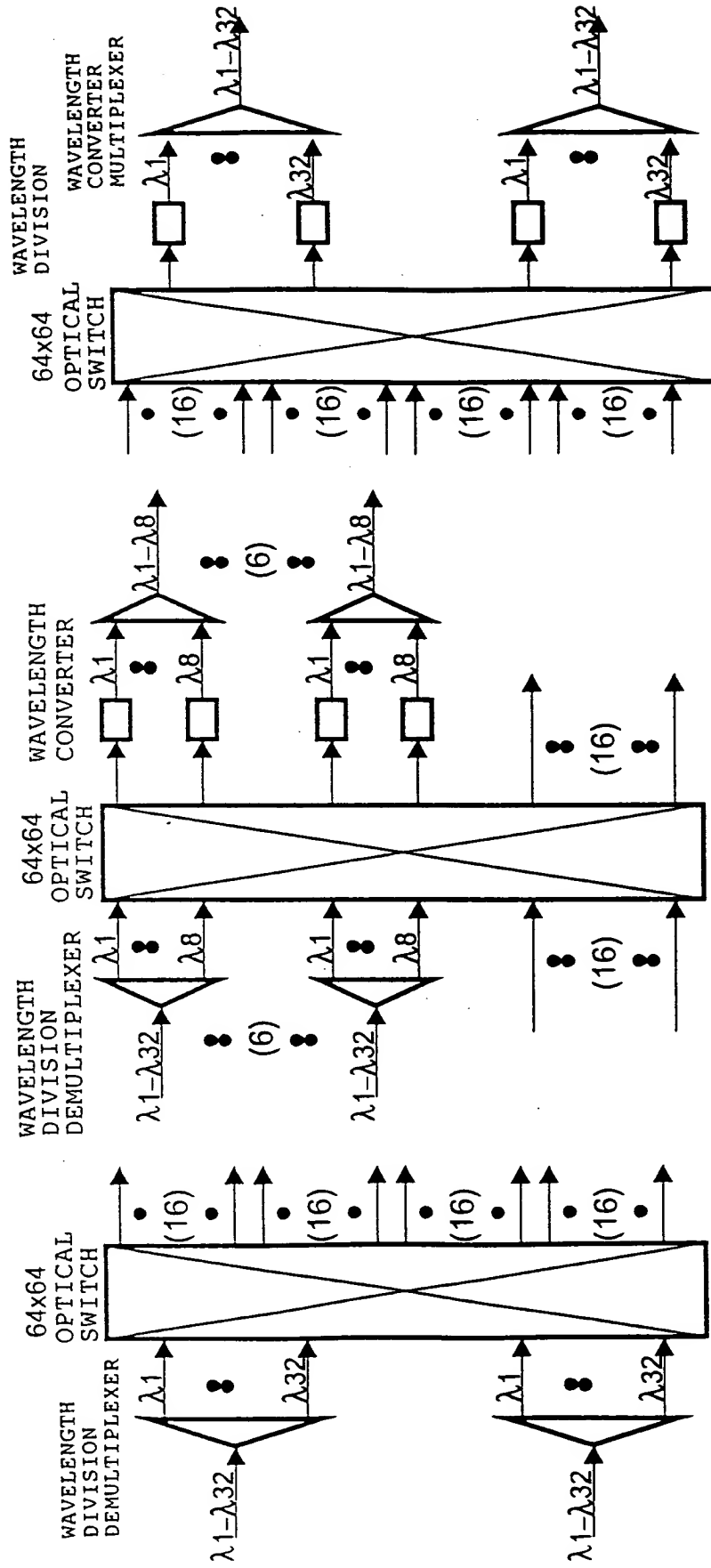


(a) INTRA-OFFICE SIGNAL
INPUT UNIT

(b) ROUTING UNIT

(c) INTRA-OFFICE SIGNAL
OUTPUT UNIT

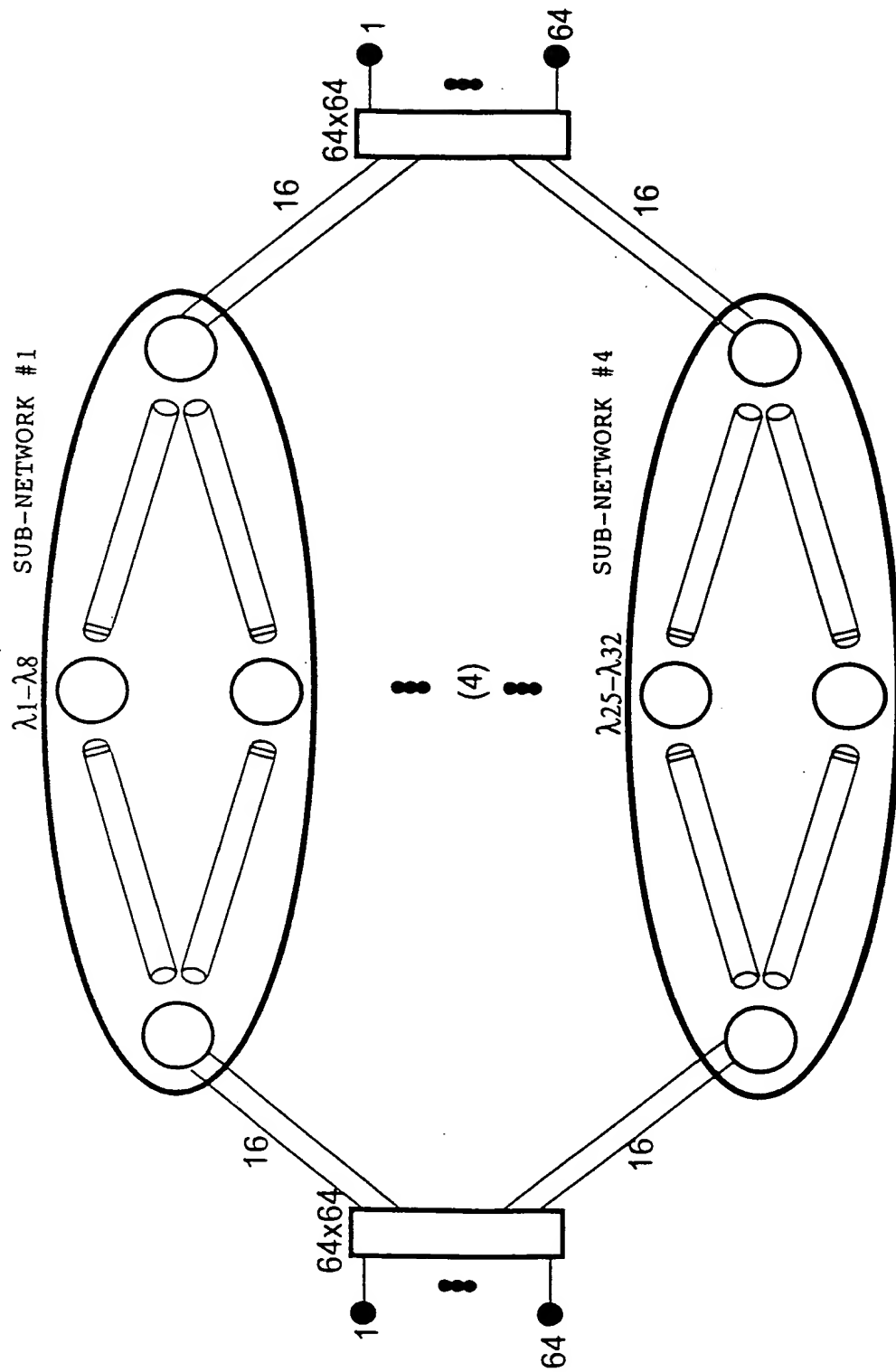
FIG. 15



✕ ROUTING UNIT FOR λ_1 TO λ_8

- (a) INTRA-OFFICE SIGNAL INPUT UNIT
- (b) ROUTING UNIT
- (c) INTRA-OFFICE SIGNAL OUTPUT UNIT

FIG. 16



※ THE WAVELENGTHS ARE ALLOCATED IN THE LINK-BY-LINK BASIS IN THE SELECTED SUB-NETWORK BETWEEN THE SENDER AND THE RECEIVER NODES WITH RESPECT TO THE OPTICAL PATH IN THE NETWORK

FIG. 17

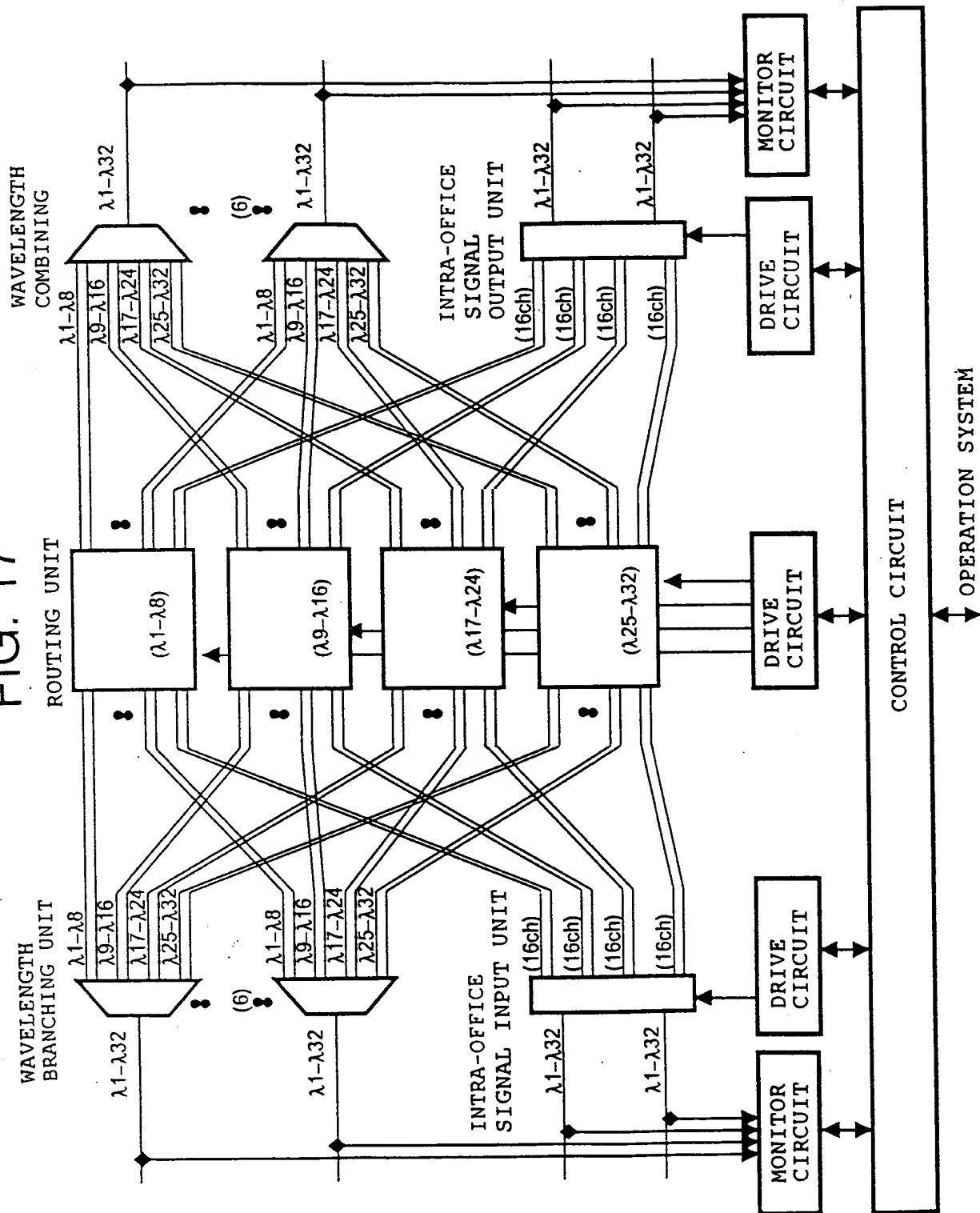
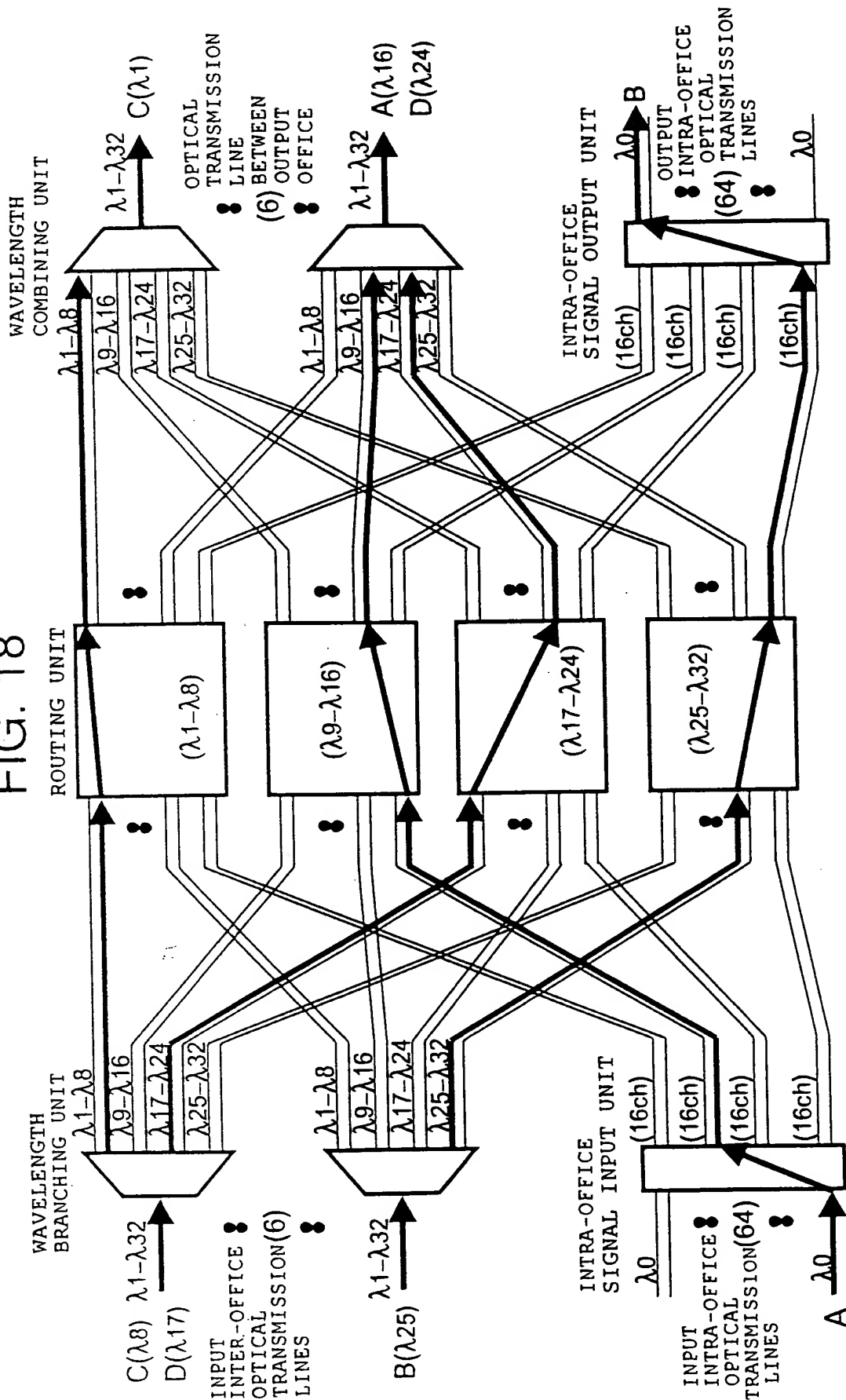


FIG. 18



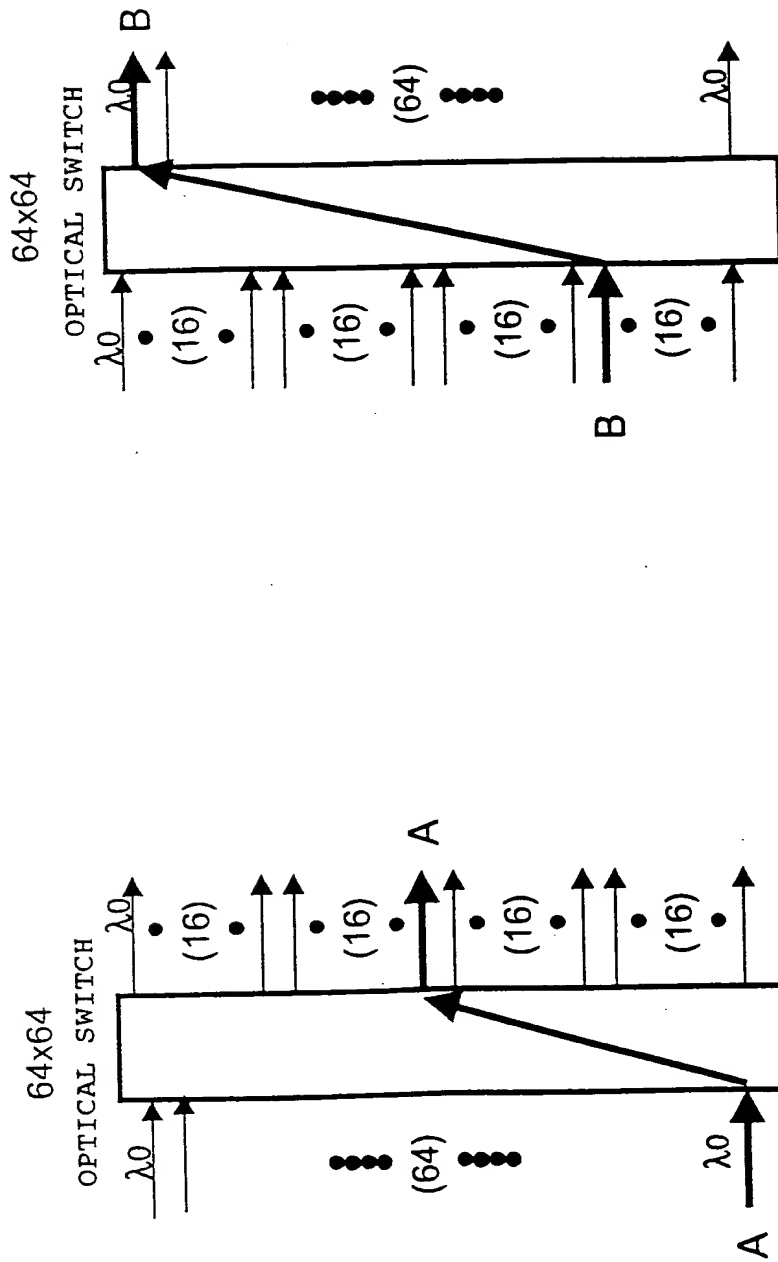
× SUBDIVIDED BY 4 PIECES OF ROUTING UNITS IN UNIT OF 8 WAVELENGTHS

× (WAVELENGTH NUMBER : 32)

× INTER-OFFICE OPTICAL SIGNAL CHANNEL NUMBER : 192

× INTRA-OFFICE OPTICAL SIGNAL CHANNEL NUMBER : 64

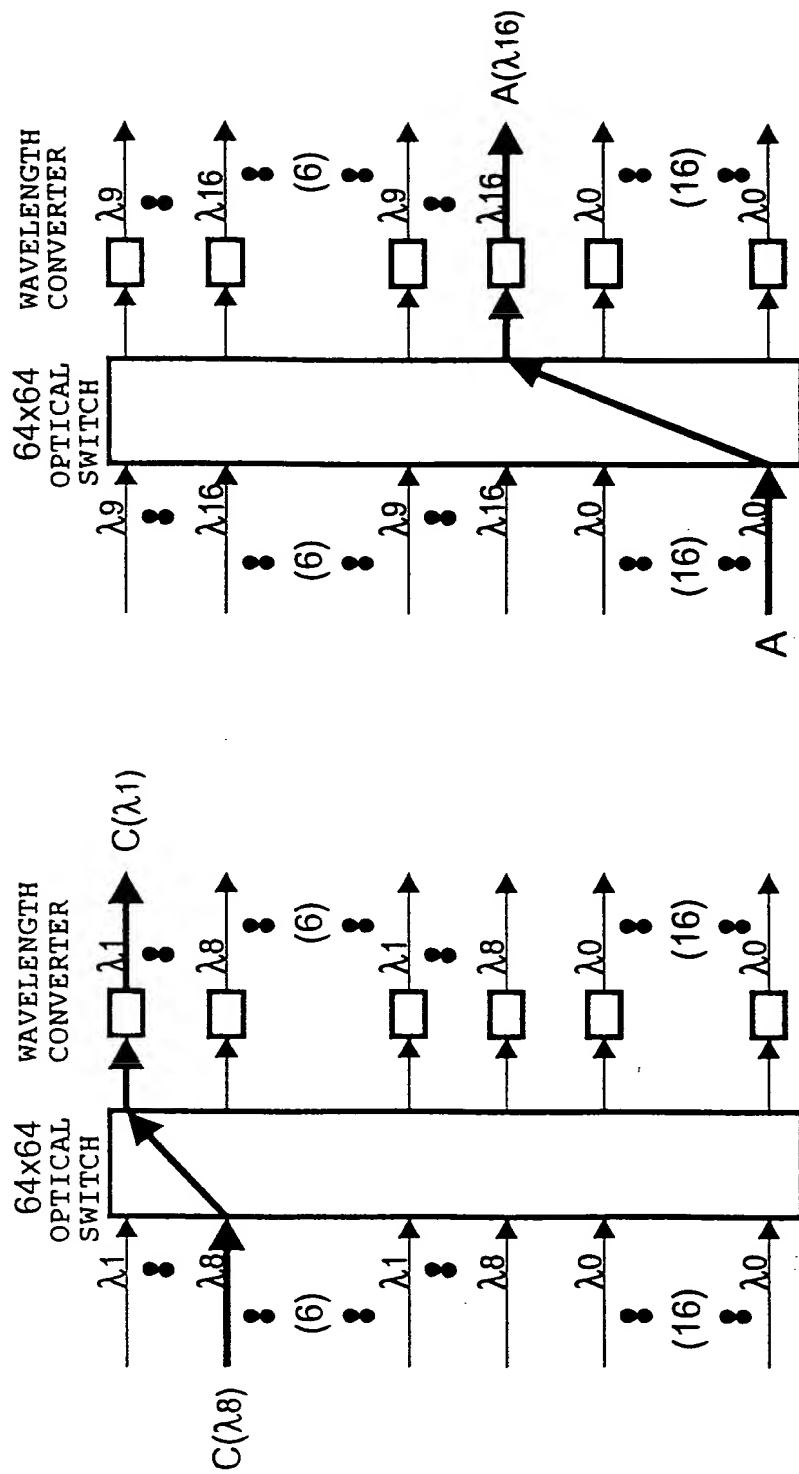
FIG. 19



(b) INTRA-OFFICE SIGNAL
OUTPUT UNIT

(a) INTRA-OFFICE SIGNAL
INPUT UNIT

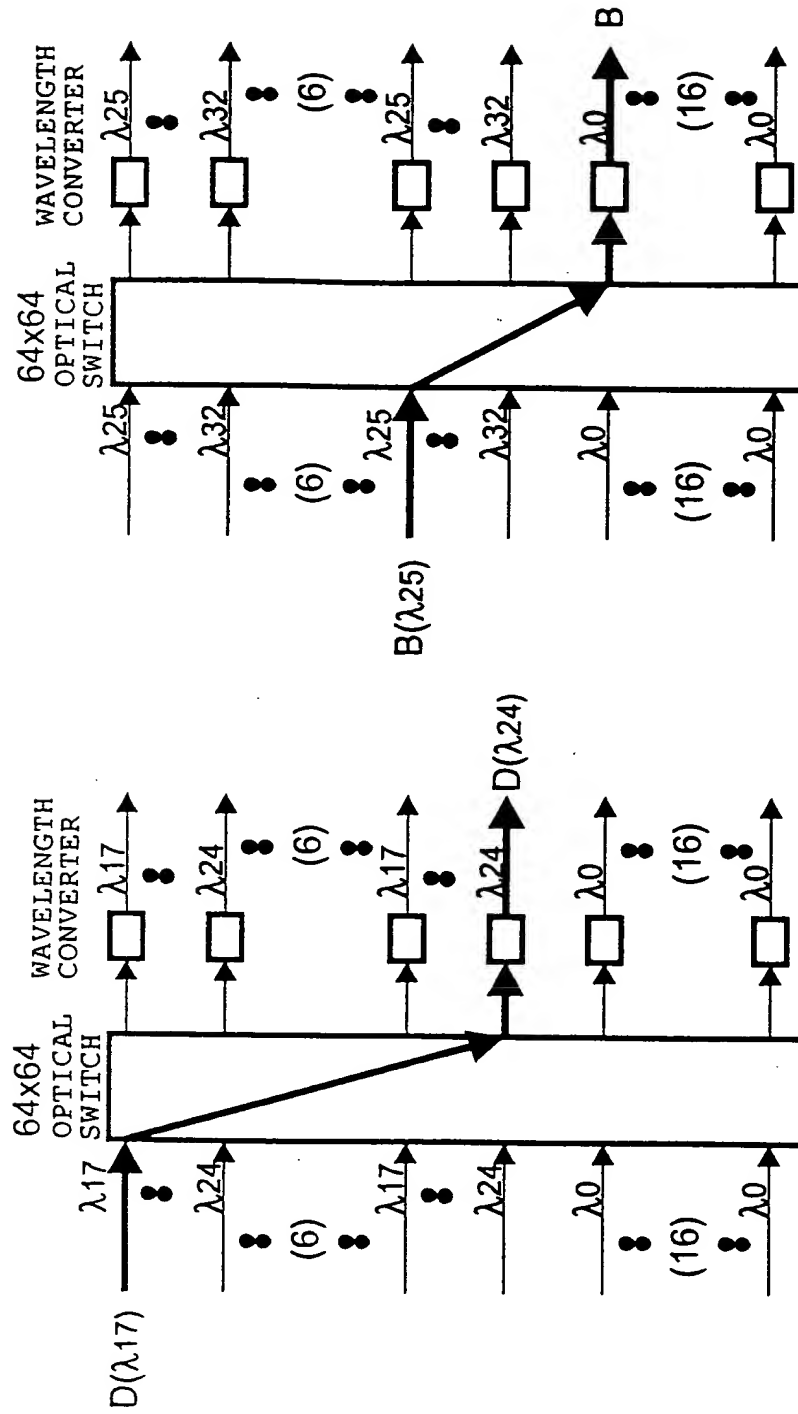
FIG. 20



(a) ROUTING UNIT FOR λ_1 TO λ_8

(b) ROUTING UNIT FOR λ_9 TO λ_{16}

FIG. 21



(a) ROUTING UNIT FOR λ_{17} TO λ_{24}

(b) ROUTING UNIT FOR λ_{25} TO λ_{32}

FIG. 22

